REMARKS

Reconsideration of this application, as amended, is respectfully requested.

Claims 1-24 are pending. Claims 1, 2, 4-13, 15-18, 20, 21, 23 and 24 have been rejected.

Claims 3, 14, 19 and 22 have been objected to.

Claims 1, 6, 15, and 20 have been amended. Claims 3, 14, 19, and 22 have been

canceled. No claims have been added. Support for the amendments is found in the specification,

the drawings, and in the claims as originally filed. Applicant submits that the amendments do

not add new matter.

Drawing Objections

The Examiner has objected to **Fig. 4** for failing to comply with 37 C.F.R. §1.84(p)(5)

because they include reference characters 432, 434, and 440 not mentioned in the description.

The previously presented paragraph [0032] has been amended to include reference

characters 432 and 434.

With respect to the objection that reference numeral 440 is not mentioned in the

description, applicant respectfully submits that reference numeral 440 is described in the

previously presented paragraph [0032] that reads as follows:

> **Figure 4** shows a RAT 418 that includes three component RATs: a high-
> bandwidth RAT 422, a mid-bandwidth RAT 424, and a low-bandwidth
> RAT 426. As shown in **Figure 4**, trace cache 410 is coupled to RAT 418.
> Re-scheduler 440 is coupled to RAT 418, as shown in **Figure 4.** The
> high-bandwidth RAT 422 and low-bandwidth RAT 426 are shown with
> the corresponding number of read ports 428, 436, respectively, and write
> ports 430, 438, respectively, as used by the high-bandwidth RAT 222 and
> low-bandwidth RAT 224 of **Figure 2**. However, in other embodiments
> other numbers of read ports and write ports may be used. The mid-
> bandwidth RAT 424 may have a number of read ports and a number of
> write ports somewhere between that used by the high-bandwidth RAT 422
> and the low-bandwidth RAT 426. In the **Figure 4** embodiment, mid-
> bandwidth RAT 424 is shown with N read ports and N/2 write ports,
> although other numbers could be chosen.

(emphasis added)

Therefore, Applicant respectfully submits that the Examiner's objections to drawing of

Fig. 4 have been overcome.

Rejections Under 35 U.S.C. § 102

Claims 1-2 have been rejected under 35 U.S.C. § 102(b) as being anticipated by U.S.

Patent No. 5,758,112 to Yeager, et al. ("Yeager").

Applicant has amended claim 1 and canceled claim 3 to include a pipeline logic to stall a

pipeline when a first instruction utilizes more logical register addresses from said second set than

said second number.

Thus, claim 1 now includes the limitations of claim 3 and is now allowable as the

Examiner indicated that claim 3 was allowable. Rather than rewriting claim 3, Applicant has

amended claim 1.

Because claim 2 depend from amended claim 1 and add additional limitations, applicant

respectfully submit that claim 2 is not anticipated under 35 U.S.C. § 102(b) by Yeager.

Rejections Under 35 U.S.C. § 103

Claims 4-13, 15-18, 20-21 and 23-24 stand rejected under 35 U.S.C. § 103(a) as being

unpatentable over Yeager.

Amended claim 1, which includes the limitation of claim 3, is now allowable as the

Examiner indicated that claim 3 was allowable.

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Applicant has amended claim 6 and canceled claim 14 to include stalling a pipeline when a first number of logical register addresses is supplied to said second register alias table, and said first number is greater than a second number of read ports of said second register alias table.

Thus, claim 6 now includes the limitations of claim 14 and is now allowable as the Examiner indicated that claim 14 was allowable. Rather than rewriting claim 14, Applicant has amended claim 6.

Applicant has amended claim 15 and canceled claim 19 to include means for stalling a pipeline when a first number of logical register addresses is supplied to said second register alias table, and said first number is greater than a second number of read ports of said second register alias table.

Thus, claim 15 now includes the limitations of claim 19 and is now allowable as the Examiner indicated that claim 19 was allowable. Rather than rewriting claim 19, Applicant has amended claim 15.

Applicant has amended claim 20 and canceled claim 22 to include a pipeline logic to stall a pipeline when a first instruction utilizes more logical register addresses from said second set than said second number.

Thus, claim 20 now includes the limitations of claim 22 and is now allowable as the Examiner indicated that claim 22 was allowable. Rather than rewriting claim 22, Applicant has amended claim 20.

Because claims 4-5, 7-13, 16-18, 21, and 23-34 depend from amended independent claims 1, 6, 15, and 20 respectively, applicant respectfully submit that claims 4-5, 7-13, 16-18, 21, and 23-34 are also allowable.

Allowable subject matter

Applicant notes with appreciation the Examiner's allowance of the claims 3, 14, 19 and

22 if rewritten in independent form including all of the limitations of the base claim and any

intervening claims.

Applicant has herewith amended the claims in light of this suggestion.

Conclusion

It is respectfully submitted that in view of the amendments and arguments set forth

herein, the applicable rejections and objections have been overcome. If there are any additional

charges, please charge Deposit Account No. 02-2666 for any fee deficiency that may be due.

Respectfully submitted,

BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP

Date: <u>March 6, 2007</u>   By: _____

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UNITED STATES PATENT AND TRADEMARK OFFICE

Def P17406

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/692,436	10/22/2003	Avinash Sodani	42P17406	8405

8791   7590   03/02/2007
BLAKELY SOKOLOFF TAYLOR & ZAFMAN
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EXAMINER
HUISMAN, DAVID J

ART UNIT	PAPER NUMBER
2183	

MAIL DATE	DELIVERY MODE
03/02/2007	PAPER

R E C E I V E D

MAR 0 5 2007

BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP
LOS ANGELES

Please find below and/or attached an Office communication concerning this application or proceeding.

Date 3/13/2007   Client: Intel Corporation
Docket Initials _____   42390.P17406
Dock. Sup. Initials _____
Atty Initials _____ EHT MJM TVR
Pat/Ser/Reg 692436
Description: lae 1   x
Response due advisory action, 1st extension

3/6/2007   Casey Hayes   660027

PTOL-90A (Rev. 10/06)

Advisory Action *Before the Filing of an Appeal Brief*	**Application No.** *10/692,436*	**Applicant(s)** SODANI, AVINASH
	Examiner David J. Huisman	**Art Unit** 2183	

--The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

THE REPLY FILED <u>14 February 2007</u> FAILS TO PLACE THIS APPLICATION IN CONDITION FOR ALLOWANCE.

1. ☒ The reply was filed after a final rejection, but prior to or on the same day as filing a Notice of Appeal. To avoid abandonment of this application, applicant must timely file one of the following replies: (1) an amendment, affidavit, or other evidence, which places the application in condition for allowance; (2) a Notice of Appeal (with appeal fee) in compliance with 37 CFR 41.31; or (3) a Request for Continued Examination (RCE) in compliance with 37 CFR 1.114. The reply must be filed within one of the following time periods:

    a) ☒ The period for reply expires <u>3</u> months from the mailing date of the final rejection.

    b) ☐ The period for reply expires on: (1) the mailing date of this Advisory Action, or (2) the date set forth in the final rejection, whichever is later. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of the final rejection.

        Examiner Note: If box 1 is checked, check either box (a) or (b). ONLY CHECK BOX (b) WHEN THE FIRST REPLY WAS FILED WITHIN TWO MONTHS OF THE FINAL REJECTION. See MPEP 706.07(f).

Extensions of time may be obtained under 37 CFR 1.136(a). The date on which the petition under 37 CFR 1.136(a) and the appropriate extension fee have been filed is the date for purposes of determining the period of extension and the corresponding amount of the fee. The appropriate extension fee under 37 CFR 1.17(a) is calculated from: (1) the expiration date of the shortened statutory period for reply originally set in the final Office action; or (2) as set forth in (b) above, if checked. Any reply received by the Office later than three months after the mailing date of the final rejection, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

<u>NOTICE OF APPEAL</u>

2. ☐ The Notice of Appeal was filed on _____. A brief in compliance with 37 CFR 41.37 must be filed within two months of the date of filing the Notice of Appeal (37 CFR 41.37(a)), or any extension thereof (37 CFR 41.37(e)), to avoid dismissal of the appeal. Since a Notice of Appeal has been filed, any reply must be filed within the time period set forth in 37 CFR 41.37(a).

<u>AMENDMENTS</u>

3. ☐ The proposed amendment(s) filed after a final rejection, but prior to the date of filing a brief, will <u>not</u> be entered because

    (a)☐ They raise new issues that would require further consideration and/or search (see NOTE below);

    (b)☐ They raise the issue of new matter (see NOTE below);

    (c)☐ They are not deemed to place the application in better form for appeal by materially reducing or simplifying the issues for appeal; and/or

    (d)☐ They present additional claims without canceling a corresponding number of finally rejected claims.

        NOTE: _____. (See 37 CFR 1.116 and 41.33(a)).

4. ☒ The amendments are not in compliance with 37 CFR 1.121. See attached Notice of Non-Compliant Amendment (PTOL-324).

5. ☐ Applicant's reply has overcome the following rejection(s): _____.

6. ☐ Newly proposed or amended claim(s) _____ would be allowable if submitted in a separate, timely filed amendment canceling the non-allowable claim(s).

7. ☐ For purposes of appeal, the proposed amendment(s): a) ☐ will not be entered, or b) ☐ will be entered and an explanation of how the new or amended claims would be rejected is provided below or appended.

    The status of the claim(s) is (or will be) as follows:

    Claim(s) allowed: _____.

    Claim(s) objected to: _____.

    Claim(s) rejected: _____.

    Claim(s) withdrawn from consideration: _____.

<u>AFFIDAVIT OR OTHER EVIDENCE</u>

8. ☐ The affidavit or other evidence filed after a final action, but before or on the date of filing a Notice of Appeal will <u>not</u> be entered because applicant failed to provide a showing of good and sufficient reasons why the affidavit or other evidence is necessary and was not earlier presented. See 37 CFR 1.116(e).

9. ☐ The affidavit or other evidence filed after the date of filing a Notice of Appeal, but prior to the date of filing a brief, will <u>not</u> be entered because the affidavit or other evidence failed to overcome <u>all</u> rejections under appeal and/or appellant fails to provide a showing a good and sufficient reasons why it is necessary and was not earlier presented. See 37 CFR 41.33(d)(1).

10. ☐ The affidavit or other evidence is entered. An explanation of the status of the claims after entry is below or attached.

<u>REQUEST FOR RECONSIDERATION/OTHER</u>

11. ☐ The request for reconsideration has been considered but does NOT place the application in condition for allowance because: _____

12. ☐ Note the attached Information Disclosure Statement(s). (PTO/SB/08) Paper No(s). _____

13. ☐ Other: _____.

U.S. Patent and Trademark Office
PTOL-303 (Rev. 08-06)   Advisory Action Before the Filing of an Appeal Brief   Part of Paper No. 20070227

Notice of Non-Compliant Amendment (37 CFR 1.121)	Application No.	Applicant(s)
	10/692,436	SODANI, AVINASH
	Examiner	Art Unit	
	David J. Huisman	2183	

— *The MAILING DATE of this communication appears on the cover sheet with the correspondence address* —

The amendment document filed on <u>14 February 2007</u> is considered non-compliant because it has failed to meet the requirements of 37 CFR 1.121 or 1.4. In order for the amendment document to be compliant, correction of the following item(s) is required.

THE FOLLOWING MARKED (X) ITEM(S) CAUSE THE AMENDMENT DOCUMENT TO BE NON-COMPLIANT:

☐ 1. Amendments to the specification:
    ☐ A. Amended paragraph(s) do not include markings.
    ☐ B. New paragraph(s) should not be underlined.
    ☐ C. Other _____.

☐ 2. Abstract:
    ☐ A. Not presented on a separate sheet. 37 CFR 1.72.
    ☐ B. Other _____.

☐ 3. Amendments to the drawings:
    ☐ A. The drawings are not properly identified in the top margin as "Replacement Sheet," "New Sheet," or "Annotated Sheet" as required by 37 CFR 1.121(d).
    ☐ B. The practice of submitting proposed drawing correction has been eliminated. Replacement drawings showing amended figures, without markings, in compliance with 37 CFR 1.84 are required.
    ☐ C. Other _____.

☐ 4. Amendments to the claims:
    ☐ A. A complete listing of all of the claims is not present.
    ☐ B. The listing of claims does not include the text of all pending claims (including withdrawn claims)
    ☐ C. Each claim has not been provided with the proper status identifier, and as such, the individual status of each claim cannot be identified. Note: the status of every claim must be indicated after its claim number by using one of the following status identifiers: (Original), (Currently amended), (Canceled), (Previously presented), (New), (Not entered), (Withdrawn) and (Withdrawn-currently amended).
    ☐ D. The claims of this amendment paper have not been presented in ascending numerical order.
    ☐ E. Other: _____.

☒ 5. Other (e.g., the amendment is unsigned or not signed in accordance with 37 CFR 1.4):
    <u>see attached sheet</u>

For further explanation of the amendment format required by 37 CFR 1.121, see MPEP § 714.

TIME PERIODS FOR FILING A REPLY TO THIS NOTICE:

1. Applicant is given **no new time period** if the non-compliant amendment is an after-final amendment or an amendment filed after allowance. If applicant wishes to resubmit the non-compliant after-final amendment with corrections, the **entire corrected amendment** must be resubmitted.

2. Applicant is given **one month**, or thirty (30) days, whichever is longer, from the mail date of this notice to supply the correction, if the non-compliant amendment is one of the following: a preliminary amendment, a non-final amendment (including a submission for a request for continued examination (RCE) under 37 CFR 1.114), a supplemental amendment filed within a suspension period under 37 CFR 1.103(a) or (c), and an amendment filed in response to a *Quayle* action. If any of above boxes 1. to 4. are checked, the correction required is only the **corrected section** of the non-compliant amendment in compliance with 37 CFR 1.121.

    <u>Extensions of time</u> are available under 37 CFR 1.136(a) <u>only</u> if the non-compliant amendment is a non-final amendment or an amendment filed in response to a *Quayle* action.

    <u>Failure to timely respond</u> to this notice will result in:
    Abandonment of the application if the non-compliant amendment is a non-final amendment or an amendment filed in response to a *Quayle* action; or
    Non-entry of the amendment if the non-compliant amendment is a preliminary amendment or supplemental amendment.
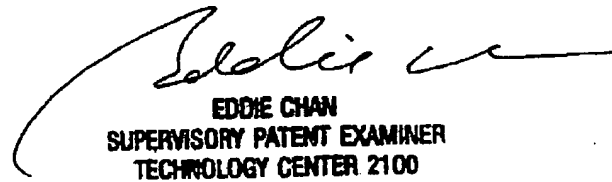
| Legal Instruments Examiner (LIE), if applicable | Telephone No. |

U.S. Patent and Trademark Office   Part of Paper No. 20070227

Continuation Sheet (PTOL-324)   **Application No.**

    Each section of an amendment document (e.g., specification amendments, claim amendments, drawing amendments, and remarks) must begin on a separate sheet. Starting each separate section on a new page will facilitate the process of separately indexing and scanning each section of an amendment document for placement in an image file wrapper.

    Applicant's claims amendments begin on the same page as applicant's specification amendments. Consequently, this has led to the improper scanning and indexing of these documents in the electronic file.

EDDIE CHAN
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2100